

## ABSTRACT OF THE DISCLOSURE

The present invention discloses a spindle motor. The spindle motor of the invention includes: a frame upwardly extruded in a tubular shape at its center portion and having  
5 a holder having a core mounted to its outer diameter portion; a metal bearing press-fit to the holder of the frame and having a stepped portion at its outer peripheral surface; a shaft rotatably inserted into the metal bearing and provided with a thrust washer at its lower end portion; a rotor having  
10 a magnet coupled to the upper end of the shaft for communicating with the core at the inner diameter surface, and an annular type mounting groove having an engaging portion extruded at the center of the upper end portion at equal intervals; a thrust plate for shielding the lower end  
15 portion of the frame into which the metal bearing is press fit; and a stopper of which one end is inserted into the mounting groove of the rotor to be fixed to the engaging portion and of which the other end portion is supported by one side of the frame. Since the shaft and the rotor are  
20 firmly supported by a housing, the release of the shaft due to an external impact is prevented, and the span of the bearing can be maximized.